

ABSTRACT

A multi-mode wireless communication device and multi-mode communication method are disclosed. The multi-mode device includes a first baseband co-processor configured to execute low-level stack operations of a first wireless communications protocol employed within a first wireless communications network. The device also includes a host baseband processor configured to execute a set of protocol stack operations of a second wireless communications protocol employed within a first wireless communications network and higher-level stack operations of the first wireless communications protocol. A data communication channel capable of carrying data received by the multi-mode wireless communication device from the first wireless communications network or sent by the multi-mode wireless communication device through the first wireless communications network is provided between at least the host baseband processor and the first baseband co-processor.

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